

Clean Set of Amended Claims

Sub 1

B1

10. (Twice Amended) A wireless data communication method in which at least one mobile switching center including a mobile connection control module, a mobile data path connection control module, a public network data path connection control module and a trunk connection control module are connected with at least one data network interworking unit by a first data path and a second data path, comprising:

- inputting an identification number of a called party mobile station;
- establishing a first call from a calling party mobile station to the mobile data network interworking unit and then establishing a first traffic channel;
- calling a called party mobile station at the mobile data network interworking unit;
- establishing a second call from said called party mobile station to the mobile data network interworking unit when a data response comes from said called party mobile station and then establishing a second traffic channel after the mobile data path connection module informs the public network data path connection control module of a normal state of said first data path;
- establishing a call between the mobile switching center and the mobile data network interworking unit through the second data path; and

*SubC
concl.*
*B1
concl.*

connecting said first and second traffic channels through at least one modem
of the interworking unit.

SubC
B2

21. (Twice Amended) A wireless data communication method in which at least one mobile switching center having a mobile connection control module, a mobile data path connection control module, a public network data path connection control module and a trunk connection control module is connected with at least one data network interworking unit through a first data path and a second data path, comprising:

- a) inputting an identification number of a called party mobile station;
- b) establishing a first traffic channel after establishing a first call from a calling party mobile station to a first mobile data network interworking unit having at least one modem through a first mobile switching center;
- c) calling a called party mobile station controlled by a second mobile switching center from said first mobile data network interworking unit through said public network data path connection control module and said trunk connection control module;
- d) establishing a second traffic channel after a second call from said called party mobile station to a second mobile data network interworking unit having at least one modem is established when said called party mobile station responds and said mobile

*Sub C1
B2
C1*

datapath connection module informs said public network data path connection control module of a normal state of said first data path;

e) establishing a call between said public network data path connection control module and said second mobile data network interworking unit after said mobile data path connection control module informs said public network data path connection control module of the completion of channel establishment when said second traffic channel is completely established;

f) releasing the traffic channel between said mobile connection control module and said public network data path connection control module when the call establishment between the public network data path connection control module and said second mobile data network interworking unit is completed; and

g) connecting said public network data path connection control module with the trunk connection control module.

*Sub C1
B3*

32. (Amended) An interworking unit for a wireless communication system, comprising:

a data path connector to couple to a mobile switching center;

*SubC7
encl.
B3
encl.*

a main processor to form a traffic channel of a mobile data path between a first mobile terminal and a second mobile terminal when a circuit data service option is detected by the mobile switching center from a base station;

a circuit data processor, coupled to the main processor and configured to analyze a signal transmitted from the first mobile terminal if a protocol between the first mobile terminal and the second mobile terminal is normally executed, and to transmit an identification number from the second terminal to the main processor; and

a switching circuit, configured to selectively switch a connection between the circuit data processor and the data path connector in accordance with a control signal from the main processor, wherein the circuit data processor comprises at least one modem.
